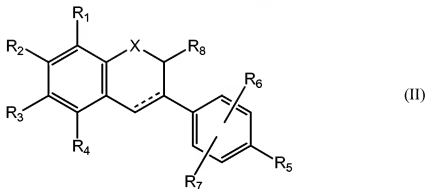


Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

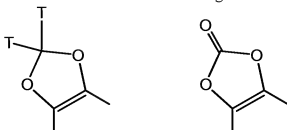
1. (Currently Amended) A method for promoting and/or enhancing the rate of repair of UV-induced, DNA mutagenic damage in skin and/or enhancing defense against UV-induced DNA mutagenic damage in skin which comprises administering topically to the skin after UV exposure a composition containing said composition comprising one or more compounds of the general formula (II):



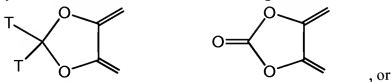
in which

R₁, R₂, R₃ and R₄ are independently hydrogen, hydroxy, OR₉, OC(O)R₁₀, OS(O)R₁₀, CHO, C(O)R₁₀, COOH, CO₂R₁₀, CONR₁₁R₁₂, alkyl, haloalkyl, arylalkyl, alkenyl, alkynyl, aryl, heteroaryl, alkylaryl, alkoxyaryl, thio, alkylthio, amino, alkylamino, dialkylamino, nitro or halo, or

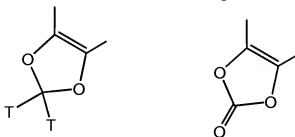
R₃ and R₄ are as previously defined, and R₁ and R₂ taken together with the carbon atoms to which they are attached form a five-membered ring selected from



R₁ and R₄ are as previously defined, and R₂ and R₃ taken together with the carbon atoms to which they are attached form a five-membered ring selected from



R₁ and R₂ are as previously defined, and R₃ and R₄ taken together with the carbon atoms to which they are attached form a five-membered ring selected from



and

wherein

R₅, R₆ and R₇ are independently hydrogen, hydroxy, OR₉, OC(O)R₁₀, OS(O)R₁₀, CHO, C(O)R₁₀, COOH, CO₂R₁₀, CONR₁₁R₁₂, alkyl, haloalkyl, arylalkyl, alkenyl, alkynyl, aryl, heteroaryl, thio, alkylthio, amino, alkylamino, dialkylamino, nitro or halo,

R₈ is hydrogen, hydroxy, alkyl, aryl, amino, thio, NR₁₁R₁₂, CONR₁₁R₁₂, C(O)R₁₃ where R₁₃ is hydrogen, alkyl, aryl, arylalkyl or an amino acid, or CO₂R₁₄ where R₁₄ is hydrogen, alkyl, haloalkyl, aryl or arylalkyl,

R₉ is alkyl, haloalkyl, aryl, arylalkyl, C(O)R₁₃ where R₁₃ is as previously defined, or Si(R₁₅)₃ where each R₁₅ is independently hydrogen, alkyl or aryl,

R₁₀ is hydrogen, alkyl, haloalkyl, amino, aryl, arylalkyl, an amino acid, alkylamino or dialkylamino,

R₁₁ is hydrogen, alkyl, arylalkyl, alkenyl, aryl, an amino acid, C(O)R₁₃ where R₁₃ is as previously defined, or CO₂R₁₄ where R₁₄ is as previously defined,

R₁₂ is hydrogen, alkyl or aryl, or

R₁₁ and R₁₂ taken together with the nitrogen to which they are attached comprise pyrrolidinyl or piperidinyl,

the drawing “---” represents either a single bond or a double bond, preferably a double bond,

T is independently hydrogen, alkyl or aryl, and

X is O, NR₁₂ or S, preferably O,

including pharmaceutically acceptable salts and derivatives thereof in admixture with a dermatologically acceptable carrier.

2. (Currently Amended) ~~A-The~~ method according to claim 1 wherein said one or more compounds of the formula (II) comprise equol and dehydroequol.

3. (Currently Amended) ~~A-The~~ method according to claim 1 which is a method for ~~preventing~~ reducing the formation of skin cancer.

4. (Currently Amended) ~~A-The~~ method according to claim 3 wherein skin cancer is selected from basal cell carcinoma, squamous cell carcinoma and malignant melanoma.

5. (Currently Amended) ~~A-The~~ method according to claim 1 wherein ~~skin is protected from the composition promotes and/or enhances the repair of UV-~~ induced mutagenic damage by one or more of increasing the rate of repair of cyclobutane pyrimidine dimers, promoting the formation of metallothionein, and decreasing p53 expression.

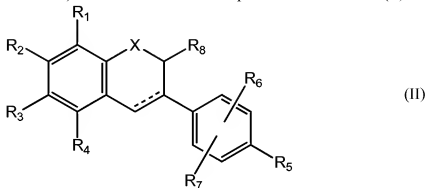
6. (Canceled)

7. (Canceled)

8. (Canceled)

9. (Currently Amended) ~~A~~The method according to claims 1 to 8-5 wherein the composition comprises 20 ~~μm~~μM to 500 mmol of compounds of the formula (II).

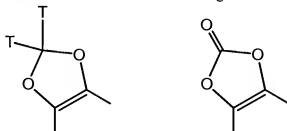
10. (Withdrawn) Use of one or more compounds of the formula (II)



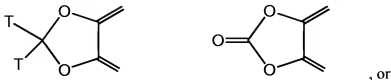
in which

R_1, R_2, R_3 and R_4 are independently hydrogen, hydroxy, OR_9 , $OC(O)R_{10}$, $OS(O)R_{14}$, CHO , $C(O)R_{10}$, $COON$, CO_2R_{10} , $CONR_{11}R_{12}$, alkyl, haloalkyl, arylalkyl, alkenyl, alkynyl, aryl, heteroaryl, alkylaryl, alkoxyaryl, thio, alkylthio, amino, alkylamino, dialkylamino, nitro or halo, or

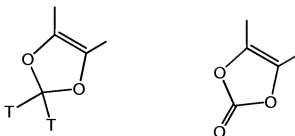
R_3 and R_4 are as previously defined, and R_1 and R_2 taken together with the carbon atoms to which they are attached form a five-membered ring selected from



R_1 and R_4 are as previously defined, and R_2 and R_3 taken together with the carbon atoms to which they are attached form a five-membered ring selected from



R_1 and R_2 are as previously defined, and R_3 and R_4 taken together with the carbon atoms to which they are attached form a five-membered ring selected from



and

wherein

R_5 , R_6 and R_7 are independently hydrogen, hydroxy, OR_9 , $OC(O)R_{10}$, $OS(O)R_{10}$, CHO , $C(O)R_{10}$, $COOH$, CO_2R_{10} , $CONR_{11}R_{12}$, alkyl, haloalkyl, arylalkyl, alkenyl, alkynyl, aryl, heteroaryl, thio, alkylthio, amino, alkylamino, dialkylamino, nitro or halo,

R_8 is hydrogen, hydroxy, alkyl, aryl, amino, thio, $NR_{11}R_{12}$, $CONR_{11}R_{12}$, $C(O)R_{13}$ where R_{13} is hydrogen, alkyl, aryl, arylalkyl or an amino acid, or CO_2R_{14} where R_{14} is hydrogen, alkyl, haloalkyl, aryl or arylalkyl,

R_9 is alkyl, haloalkyl, aryl, arylalkyl, $C(O)R_{13}$ where R_{13} is as previously defined, or $Si(R_{15})_3$ where each R_{15} is independently hydrogen, alkyl or aryl,

R_{10} is hydrogen, alkyl, haloalkyl, amino, aryl, arylalkyl, an amino acid, alkylamino or dialkylamino,

R_{11} is hydrogen, alkyl, arylalkyl, alkenyl, aryl, an amino acid, $C(O)R_{13}$ where R_{13} is as previously defined, or CO_2R_{14} where R_{14} is as previously defined,

R_{12} is hydrogen, alkyl or aryl, or

R_{11} and R_{12} taken together with the nitrogen to which they are attached comprise pyrrolidinyl or piperidinyl,

the drawing “—” represents either a single bond or a double bond, preferably a double bond,

T is independently hydrogen, alkyl or aryl, and

X is O, NR_{12} or S, preferably O,

including pharmaceutically acceptable salts and derivatives thereof in admixture with a dermatologically acceptable carrier for the manufacture of a topical composition for promoting

repair of UV-induced, DNA mutagenic damage in skin and/or enhancing defense against UV-induced DNA mutagenic damage in skin.

11. (Withdrawn) Use according to claim 10 wherein said one or more compounds of the formula (II) comprise equol and dehydroequol.

12. (Withdrawn) Use according to claim 10 which is a method for preventing the formation of skin cancer.

13. (Withdrawn) Use according to claim 12 wherein skin cancer is selected from basal cell carcinoma, squamous cell carcinoma and malignant melanoma.

14. (Withdrawn) Use according to claim 10 wherein skin is protected from DNA mutagenic damage by one or more of increasing the rate of repair of cyclobutane pyrimidine dimers, promoting the formation of metallothionein, and decreasing p53 expression.

15. (Withdrawn) Use according to claims 10 to 14 wherein the composition is administered before, during and/or after UV exposure.

16. (Withdrawn) Use according to claim 15 wherein the composition is administered before UV exposure.

17. (Withdrawn) Use according to claim 15 wherein the composition is administered before and after UV exposure.

18. (Withdrawn) Use according to claims 10 to 17 wherein the composition comprises 20 μ m to 500 mmol of compounds of the formula (II).

19. (Withdrawn) Use of compounds of the formula (II) for promoting repair of UV-induced, DNA mutagenic damage in skin and/or enhancing defense against UV-induced DNA mutagenic damage in skin.

20. (Currently Amended) ~~The~~A method according to any of claims 1 to 9 wherein the composition comprises a cosmetic or sunscreen composition.

21. (Withdrawn) A use according to claims 10 to 19 wherein the composition comprises a cosmetic or sunscreen composition.

22. (Withdrawn) A cosmetic or sunscreen composition which comprises one or more compounds of the formula (II) as hereinbefore defined in association with one or more dermally acceptable carriers or excipients.

23. (Withdrawn) A cosmetic composition according to claim 22 which comprises a make-up or foundation composition.

24. (New) The method according to claim 9, wherein the composition comprises a cosmetic or sunscreen composition.